

List of Faculty members and Research Areas

NIST- SUMMER RESEARCH INTERNSHIPS & FELLOWSHIPS 2018

Department/Center	Mentor's Name	Research Areas
Computer Science Engineering (CSE)	Prof. Geetika Mudali	Database Systems, Cloud Computing
	Dr. Shom Prasad Das	Machine Learning, Data Science
	Prof. Anisur Rahman	Algorithmic Graph Theory, Cryptology & data mining algorithms
	Prof. Bhawani S Pattnaik	Robotics, Embedded System, Internet of Things
	Mr. Debananda Kanhar	Image processing, Machine Learning,
	Mr. R. K. Shial	Data center networking in cloud environment.
	Dr. Hemant K Reddy	Cloud Computing: VM Provisioning, Big Data analytic on cloud environment
	Prof.. Siddharth BNeelamani	Mobile Communications, Computer Vision
	Mr. Ranjit Behera	Internet of Things , Cloud Computing and Machine learning
	Mr. P. K. Jena	Multimodal Biometric Authentication
	Dr. Tapas Kumar Mishra	Adhoc Newtwork , Algorithm
	Dr. Abinash Tripathy	Natural Language Processing, Sentiment Analysis
Mechanical Engineering (ME)	Prof. Sangram Mudali	Renewable Energy, Clean Technologies, Social entrepreneurship
	Prof. Ashok Das	Clean Technologies, Energy Efficiency, Smart Grid and Green Buildings, Solar PV and Thermal (CSP) Applications, Semiconductor Equipment Development
	Dr. Santosh Kumar Panda	Refrigeration systems, flows simulation
	Dr. Saurabh Dewangan	Material characterization, mining equipment, coal cutting
	Dr. Sushanta Kumar Sahu	Water purification (Fluoride, hexavalent-chromium removal), Underwater robotic welding
	Dr. B Sambhi Reddy	Polymer and Natural Composite materials, Design and Fribication of biomedical implants
	Dr. Motahar Reza	Fluid Dynamics, Heat and Mass transfer, MHD, Stability of Fluid Flows, Computational Fluid Dynamics (CFD)

Electronics and Communication Engineering (ECE)	Prof. Ajit K. Panda	VLSI Design & Heterostructure Semiconductor Devices
	Prof. Trinath Sahu	Quantum Semiconductor devices and materials ; Nanomaterials, (Low dimensional devices and materials, Electron transport in quantum well structures, Inter subband optical transition in quantum well structures)
	Prof. Mrinal Das	Analog-Mixed Signal/RF VLSI design
	Dr. SatyaSopan Mahato	Solar cells, , Silicon Hetero structure devices like Strained-silicon MOSFET, SiGe MOSFETs
	Dr. Palash Das	GaN HEMT, AlGaIn/GaN heterostructure modelling, III-V compound semiconductor (GaN, GaAs) epitaxial growth in Molecular Beam Epitaxy, X-Ray diffraction characterizations of AlGaIn/GaN thin films
	Dr. Sandipan Mallik	Thin film sensors, Thin Film Deposition and Characterization Technique,High-k Gate Dielectrics, Photovoltaic
	Dr. Satya Ranjan Patnaik	Graphene for electron devices, Prospects of wide band gap material, Content based image retrieval
	Dr. Santosh K Patnaik	Analog VLSI Integrated Circuit Design
	Dr. Pradyumna K Patra	Antenna ,Microwave Systems , Metamaterial , Micro Electro Mechanical Systems
	Dr. Asit Kumar Panda	Micostrip Antenna, Metamaterial, microwave and wireless component
	Mr. Swadhin Mishra	Wireless Communication(MIMO-OFDM communication) and Information theory and coding
	Mr. Durga P Das	Digital System Design using FPGA
	Mr. M. Suresh	Reversible Logic Circuits, Null Conventional Logic, Glitch Analysis in Digital Circuits
	Dr. Sudhakar Das	Semiconductor Devices, VLSI
	Dr. Himansu SPradhan	Distributed fiber optic sensor design and analysis
Dr. Prashant Kumar Singh	RF Circuit Design, Microwave Strip Filter and Antena	
Dr. Rajesh Kumar Patjoshi	VLSI and Mixed signal	

Electrical Engineering and Instrumentation Engineering (EE, EEE, EIE)	Dr. Abhro Mukherjee	Controller design of various dynamical systems
	Mr. Satyabrata Das	VLSI DSP SYSTEMS, NON LINEAR ADAPTIVE SIGNAL PROCESSING
	Dr. Ch. Murthy	Phasor Measurement Unit: Its Applications, Optimal Placement and Reliability
	Dr. Santanu Pradhan	Reinforcement Learning based Intelligent Control of Autonomous Robots
	Dr. Basanta Sahu	Control System, Robotics, Underwater Robotics, Intelligent Control
	Dr. Rajendra Kharanga	Microgrid & Distributed generation, Automatic generation control, Application of FACTS devices
	Mr. Bhagabati P Pattnaik	Power System Engineering, Electrical Machines & Drives, Hybrid Non-Conventional Energy Production and Smart Grid
	Mr. S. M. A. K. Azad	PLC, SCADA, Industrial Automation & Control, Distributed Control Systems
	Dr. Mrutyunjaya Mangaraj	Power Quality Conditioning, Artificial Intelligence, Smart grid.
Civil Engineering (CE)	Dr. P. Dinakar	Investigations on R C C Shear critical Beams and Pilecaps
	Dr. Rima Sahani	Transportation Engineering
Applied Engineering Sciences	Dr. Ajay Kumar Bhurjee	Nonlinear Optimization problem with interval uncertainty
	Dr. Bibekananda Bira	System of hyperbolic PDEs fractional order PDEs
	Dr. Manabendra Patra	Chemical Kinetics, Colloidal Chemistry and nanotechnology
	Dr. Duryodhan Sahu	Synthesis and Characterization of organic materials and its nano-composites for electro-optical applications
	Dr. Shrabani Mahata	Development and Characterizations of Nano materials and Thin Films for Bio-applications
	Dr. Mihir Hota	Fiber Optics, Holographic Coupler & Optical bistability, Optical switching, Application of Nanotechnology (Opto Electronics)
	Dr. Debasish Panda	Semiconductor nonvolatile device, and Fabric device
	Dr. Deepanjali Mishra	Spintronics, Quantumdot Sensitized solar cell, Green photonics
	Dr. Motahar Reza	Fluid Dynamics, Heat and Mass transfer, MHD, Stability of Fluid Flows, Computational Fluid Dynamics